Monitoring Data Record

Project Title: R-977A US 64 COE Action ID: 2005301150
Stream Name: UT to McCombs Branch (Site 19) DWQ Number: 3487
City, County and other Location Information: Murphy, Cherokee County, US 64, from US 19-74-129 in Murphy to East of NC 141 in Peachtree (Sta. 10+60 –Y-) Clayton Road
Date Construction Completed: April 2009 Monitoring Year: (2) of 3
Ecoregion: 8 digit HUC unit 06020002
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 115 ft. Urban or Rural: Rural Watershed Size:
Monitoring DATA collected by: M. Green and J. Young Date: 7/21/10
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Rd , Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status:

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level **1** ~~2~~ ~~3~~
The permittee shall visually monitor the vegetative plantings to assess and ensure complete stabilization of the mitigation stream segments. The monitoring shall be conducted annually for a minimum of 3 years after final planting. Photo documentation shall be utilized to document the success of the riparian vegetation and submitted to DWQ in a final report within 60 days after completing monitoring. After 3 years the NCDOT shall contact the DWQ to schedule a site visit to close out the mitigation site.

Section 1. PHOTO REFERENCE SITES
(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 4 photos were taken from 3 photo point locations
Dates reference photos have been taken at this site: 8/12/09, 7/21/10

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference: A site map with approximate photo point locations is included with this report.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: The planted vegetation noted surviving along the streambanks and in the buffer consisted of silky dogwood, sycamore, northern red oak, and river birch. Additional buffer plantings were installed on January 25, 2010. Other vegetation noted onsite consisted of jewelweed, *Juncus* sp., goldenrod, tear-thumb, sedge, and various grasses.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

This is the Year 2 Summer evaluation for the UT McCombs Branch stream relocation. This stream relocation was stabile at the time of monitoring. NCDOT will continue to monitor this stream relocation.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

Section 4. DEBIT LEDGER

The entire UT McCombs Branch (Site 19) stream relocation site was used for the R-0977A project to compensate for unavoidable stream impacts.

UT McCombs Branch

Photo Point #1 (Upstream)

Photo Point #2 (Upstream)

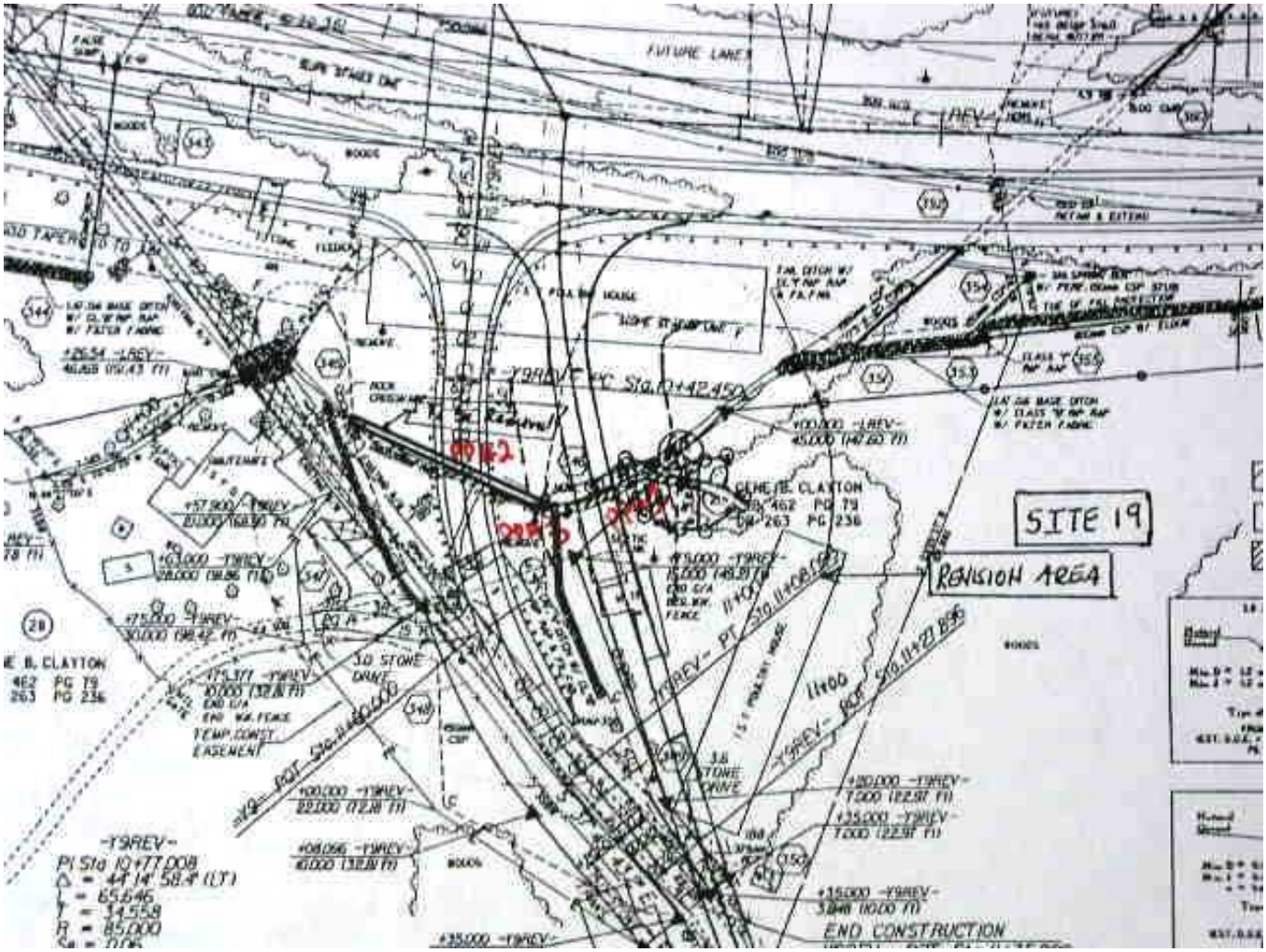
Year 2 Summer – July 2010

UT McCombs Branch

Photo Point #2 (Downstream)

Photo Point #3 (Overview Looking Downstream)

Year 2 Summer – July 2010



*Approximate photo points locations for UT to McCombs Branch